

Date: Sat, 1 May 93 04:30:09 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #524
To: Info-Hams

Info-Hams Digest Sat, 1 May 93 Volume 93 : Issue 524

Today's Topics:

Another AM Question (2 msgs)
Comments on Dual Band HTs
Differential equations and power.
FCC Rules on Transmission
help: IC245 SSB adaptor
SAREX Packet Ops
sat work on ht
Sellers Beware!!!
STS-55 Element Set GSFC-013

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 30 Apr 93 21:12:04 -0500 (CDT)
From: speedway.net!hatter@uunet.uu.net
Subject: Another AM Question
To: info-hams@ucsd.edu

> From: alanb@sr.hp.com (Alan Bloom)

[... content stuff deleted ...]

> <Flame on:>
> It's a shame that people don't check their facts with a
more-knowledgable
> colleague before they confidently assert them on the net.
> <Flame off>

Question: What else must be checked and with whom before a post?

[... stuff of argumentative content ...]

> Wrong. The flying receiver would see sidebands at the frequency of its
> revolution rate. (A VERY fast airplane!)

Now, let's see if I have this right. You take an unmodulated carrier, propagate it with directionality, and then rotate the signal about an axis perpendicular to propagation axis. Next you board a speedy jet and follow the maxima of the beam looking for the signal and modulation components. Flying in this manner, do you see both the carrier and some sidebands, or at least "sidebands".

If so, we have a new phenomena. Change the scenario just a tad. Mount your receiver on an extension of the x-element beam's boom and measure the frequency received. If you have some other than just the carrier at the frequency of the non-rotating signal, then a few texts will have to be rewritten.

73
Henry
n5shl

Date: Fri, 30 Apr 1993 18:41:48 GMT
From: usc!cs.utexas.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpfcso!
myers@network.UCSD.EDU
Subject: Another AM Question
To: info-hams@ucsd.edu

I know I shouldn't do this (it's somewhat like dumping gasoline on a raging fire), BUT.....

Every so often, someone figures out an AMAZINGLY simple way to do zero-bandwidth communications; all you gotta do is use polarization modulation! For a simple example, mount a pair of beams, one vertical and one horizontal; switch between the two to send CW! Go a little faster with the switch, and send anything you want...at ZERO bandwidth!

Now, for extra credit, figure out what's wrong with the above, and how it relates to the original question. (And PLEASE, let's not have everyone posting the answer...this is something I'd like some people to think about

for a while, OK?)

Bob Myers KC0EW Hewlett-Packard Co. |Opinions expressed here are not
Systems Technology Div. |those of my employer or any other
myers@fc.hp.com Fort Collins, Colorado |sentient life-form on this planet.

Date: 30 Apr 93 08:56:02 MDT
From: portal!lhaven.UUmh.Ab.Ca!Lawrence_Chen@uunet.uu.net
Subject: Comments on Dual Band HTs
To: info-hams@ucsd.edu

I'm about to write my test, its on Wednesday. I reckon that I'll pass with no problem, my only regret is that I waited so long before taking one. My friends kept telling me that I would probably find the material easy.

Anyways, as soon as I'm legal, I'm thinking about getting a Dual Band HT.

But reading all those magazine ads is starting to confuse me, they all have different ideas on what kind of specs to provide so that one can't directly compare them side by side.

So, I'd like to get comments from people who know something about these HTs.

Right now I'm looking at the various ICOM offerings (24AT, W21AT, W2A), the FT530 & FT470 from Yeasu, the Alinco DJ580T, and the Kenwood TH78A.

Some pointers on what would be important and what wouldn't be would be appreciated also.

Since this will probably be the only radio I get for a long time, since as soon as a certain somebody finds out what I'm spending.....things will be.....

Paging features or tone squelch might be something I need, depending on how the Emergency Preparedness setup gets done.

-- Via DLG Pro v0.995

"Just a Crazy Engineer with an Amiga and an HP48sx" - The Dreamer
Email: dreamer@lhaven.uumh.ab.ca or "Lawrence Chen" @ 1:134/3002
PHONE: +1 403 526 6019 FAX: +1 403 529 5102 CIS: 74200,2431
Lunatic Haven BBS (1:134/3002): +1 403 526 6957 (14,400 HST/v.32bis)

Lunatic Haven BBS (UUCP): +1 403 526 5035 (Telebit Worldblazer)
Praxis Society K12 BBS (1:134/3003): +1 403 529 1610 (Telebit T2500SA)

Date: Sat, 1 May 1993 01:45:41 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!swrinde!cs.utexas.edu!utnut!torn!csd.unb.ca!
news.ucs.mun.ca!kean.ucs.mun.ca!jcraig@network.UCSD
Subject: Differential equations and power.
To: info-hams@ucsd.edu

In article <C69GHG.193@srgenprp.sr.hp.com>, alanb@sr.hp.com (Alan Bloom) writes:
> William J. Bencze (bencze@isl.stanford.edu) wrote:
> : >> On 28 Apr 93 16:32:20 CDT, dadams@cray.com (David Adams) said:
>
> : > Durring the dissussion of how current leads voltage in an inductor
> : > by a phase angle of 90deg, It is apparent that there are a few
> : > differential equations lying just below the surface here, that might
> : > help explain the subject to a mathophile like my self. Have any of
> : > you ever seen the subject presented that way? Does it lead to
> : > a mathimatical explaination of how phase angles are calculated?
>
> : i = C dv/dt and v = L di/dt (ref: physics/EE/ARRL Handbook)
>
> ..
>
> : Therefore, in a capacitor, current leads voltage, while in an inductor,
> : voltage leads current.
>
> A useful mnemonic is
>
> ELI the ICE man
>
> i.e. Voltage (E) leads current (I) in an inductor (L)
> Current (I) leads voltage (E) in a capacitor (C)
>
> AL N1AL
>
Or how about "I before E except after C and in inductive circuits" ?

Joe, VO1NA

Date: Fri, 30 Apr 1993 19:38:35 GMT
From: usc!zaphod.mps.ohio-state.edu!saimiri.primate.wisc.edu!
usenet.coe.montana.edu!news.uoregon.edu!netnews.nwnet.net!spiff.seattleu.edu!

thebes!ole!ssc!markz@network.UCSD.EDU
Subject: FCC Rules on Transmission
To: info-hams@ucsd.edu

Myron A. Calhoun (mac@cis.ksu.edu) wrote:
: In the "cb" and "broadcast" (both AM and FM) bands, I recall the
: power limitation is 100 MILLIwatts (one-tenth of a watt); there may
: be other rules, too, but I'm NOT a lawyer, so....

I'm not either, but I do have a copy of part 15.

AM broadcast band (15.219)
100 milliwatts input power.

CB (operating under part 15.227)
10000 microvolts/meter at 3 meters

FM broadcast band (15.239)
250 microvolts/meter at 3 meters. You stick this one in the
antenna equations, and you get a radiated power of something
like 30 nanowatts. Good for 50 feet or so.

Mark Zenier markz@ssc.wa.com markz@ssc.com

Date: 1 May 1993 02:52:55 GMT
From: news.mtholyoke.edu!mhc.mtholyoke.edu!pryack@uunet.uu.net
Subject: help: IC245 SSB adaptor
To: info-hams@ucsd.edu

I'm looking for info about a SSB adaptor for an Icom IC-245 2 meter radio.
Does anybody have one looking for a new home? 73 de W1ETH

--
Paul R. Ryack, M.D., M.P.H. |pryack@mhc.mtholyoke.edu
|W1ETH@K1MEA.#WMA.MA.USA.
There are certain sections of |fax: (413)532-9141
New York, Major, that I wouldn't|
advise you to try and invade. |

Date: 1 May 93 02:20:02 GMT
From: news-mail-gateway@ucsd.edu
Subject: SAREX Packet Ops
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-55.016
SAREX Packet Ops

May 1, 1993 @ 02:00
To all radio amateurs:

The SAREX Operations team at the Johnson Space Center have recently drafted a flight note to the STS-55 crew asking them to turn on the SAREX packet robot. This has been approved by the Shuttle flight operations team and has been uplinked to the crew. While the SAREX Working Group cannot guarantee that the packet robot will be turned on, we anticipate that it will be operating over the next few days.

SAREX packet operations are conducted on the following frequencies:

Downlink: 145.55 MHz
Uplink: 144.49 MHz

Please listen on the downlink frequency for Shuttle packet activity BEFORE sending uplink packets.

Station Callsign: W5RRR-1

Those of you who have been listening to the Shuttle downlink from NASA select and WA3NAN are well aware that NASA has made a concerted effort over the past few days to conserve power on the Shuttle. This was being performed in an attempt to extend the mission an additional day. SAREX packet activity has been also curtailed over the past few days as part of this power conservation effort. Although this power conservation activity is still in progress, the crew was given the go ahead to turn on the packet robot.

Good luck and 73,

Frank H. Bauer, KA3HDO for the SAREX working group

/EX

Date: 1 May 1993 01:59:39 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!cleveland.Freenet.Edu!
ag447@network.UCSD.EDU
Subject: sat work on ht
To: info-hams@ucsd.edu

what are the best ht's that will work voice on the oscars

--

when I die I am really going to remember THIS! life

Date: 28 Apr 93 22:33:00 GMT
From: swrinde!gatech!destroyer!cs.ubc.ca!alberta!adec23!ersys!freddy!
shaun.merrigan@network.UCSD.EDU
Subject: Sellers Beware!!!
To: info-hams@ucsd.edu

To: all

In rec.radio.swap, don@fatcity.cts.com (Don Hamiel) writes:

> Be leary of a person by the name of Steve Parrish in Lancaster,
New Hampshire....

I wonder if the infamous Mike Kirby of Florida has moved north??

Last I heard there was a class action suit pending against this fellow. Does anyone know how it turned out???

73's

Shaun

shaun.merrigan@freddy.ersys.edmonton.ab.ca (Shaun Merrigan)

. DeLuxe./386 1.25 #974sa .

Date: 1 May 93 02:56:37 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-55 Element Set GSFC-013
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-55.017
STS-55 Element Set GSFC-013

Enclosed is the latest Keplerian data for STS-55 as generated by Ron Parise, WA4SIR at the Goddard Space Flight Center. Gil Carman, WA5NOM reports that the RCS burn performed yesterday has allowed the Shuttle to more closely follow the orbit it was placed in near the beginning of launch. As such, element set GSFC-013 is currently 4 seconds later than the prelaunch

element set JSC-007.

Gil Carman also reports that the lower central U.S. will have good visible passes before sunrise each morning, starting Sunday.

STS-55

1	22640U	93 27 A	93120.62020368	0.00044855	00000-0	12708-3 0	131
2	22640	28.4606 239.1107	0011268	287.1577	72.7801	15.91747408	652

Satellite: STS-55

Catalog number: 22640

Epoch time: 93120.62020368 (00 MAY 93 14:53:05.60 UTC)

Element set: GSFC-013

Inclination: 28.4606 deg

RA of node: 239.1107 deg Space Shuttle Flight STS-55

Eccentricity: 0.0011268 Keplerian Elements

Arg of perigee: 287.1577 deg

Mean anomaly: 72.7801 deg

Mean motion: 15.91747408 rev/day Semi-major Axis: 6675.5251 Km

Decay rate: 0.45E-03 rev/day*2 Apogee Alt: 304.66 Km

Epoch rev: 65 Perigee Alt: 289.62 Km

NOTE - This element set is based on NORAD element set # 013.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

/EX

End of Info-Hams Digest V93 #524
